

ABSTRACT OF THE DISCLOSURE

1                   Sequences and partial sequences for three types of mammalian (human and rat  
2 sequences identified) T-type calcium channel subunits which we have labeled as the  $\alpha_{1G}$ ,  $\alpha_{1H}$   
3 and  $\alpha_{1I}$  subunits are provided. Knowledge of the sequence of these calcium channel permits  
4 the localization and recovery of the complete sequence from human cells, and the  
5 development of cell lines which express the novel calcium channels of the invention. These  
6 cells may be used for identifying compounds capable of acting as agonists or antagonists to  
7 the calcium channels.